

CCCGGGCCGCGCCGTGCGGGACCCGTGCCCGGCCGCGCTGCCACCGCCGCCCGGCCGACCGAG  
 GGACCCGCCGCCCGGGCTGCTCCGGACCTAGAGGATCAAGTCATAATGGGAGCATTAGACAAGCC  
 AAAGATGGAGAACATAATGCCAGGGCAGGGATGGGTTACGATACGGCTAAGCAGCATGCAAGGT  
 TGGCGAGTGAAATGGAGGACGACACACGGCTGTGATGGTTGCCAAGTGGACTTGAGACATGGTCAT  
 TCTTGCTGTATATGATGGCATGCTGGTCTCAGGTTGCCAATACTGCTGTGAGCAGCTGTTAGATCA  
 CATCACCAATAACCAGGATTCAGAGGATCTGAGGACACCTCTGTGGAGAACGTAAGAACATGGAATC  
 AGAACAGGGTTCTGGAGATTGATGAACACATGAGAGTTATGTCAGAGAACATGGTCAGATAGAA  
 GCGGGTCAACAGCTGAGGCGTCTTAATCTCCCCAACATACTTATTCATTAACGTGGAGACTCGAG  
 AGGTTTACTTTGTAGGAATAGAAAAGTCACCTCTCACACAAGACCATAAACAGTAACCGCTGGAA  
 AAAGAACGAATTCAAATGCAGGGGCTGGTGATTCAGCGTCAATGGCTCTGGCTGTATCGA  
 GGGCCCTGGGATTTCGATTACAAATGTGTCATGGAAAAGGTCACAGAGCAGCTGTCTCCCCAGA  
 GCGCGAAGTCATGATATTGAAAGGTCTGAAGAACATGACAGTCATCATCCTGCATGCGATGGCATH  
 TGGGACGTCATGGGAAACGAAGAGCTGTGACTTTGAGATCAGACTGAAGTCAGTGAACCTTG  
 AGAAAAGTTGCAATGAAGTAGTCGACACCTGTTGTATAAGGGAAAGTCGAGAACATGAGTGTGATTT  
 GATCTGTTTCCAAGTGCACCCAAAGTCCTGGCAGAGGCGGTGAAGAACAGGCGGAGCTGGACAAGTAC  
 CTGGAGAGCAGAGTAGAACATAAAGAACAGGTGGAAGGCGTCCCTGACTTAGTCACGTGATGC  
 GCACGTTAGCCAGTGAGAACATCCCCAGCCTCCCACCAAGGGGTGAATTGCAAGAACGGAAATGTAAT  
 TGAAAGCCGTTACAATAGACTGAACCTTACAAAAATGACGACACTGATTCTGCGTCAACCGATGATATG  
 TGGTAAAGCCGCTCACCCAGCCGTGGACTCACCTCGCCTGCAAAGGGAAAGCCAGCTCATCCTGCCGA  
 GCCTTACCATCCATACCGACTCACAGGAGGGTCTGACACGGGTGAGGACTGCAG (SEQ NO:1)

MGAFLDKPKMEKHNAQGQGNGLRYGLSSMQGWRVEMEDAHTAVIGLPSGLE  
 TWSFFAVYDGHAGSQVAKYCCEHLLDHITNNQDFRGSAGAPSVENVKNGIRTG  
 FLEIDEHMRVMSEKKHGADRSGSTAVGLISPQHTYFINCGDSRGLLCRNRKVH  
 FFTQDHKPSNPLEKERIQNAGGSVMIQRVNGLAVSRALGDFDYKCVHGKGPT  
 EQLVSPEPEVHDIERSEEDDQFILACDGIWDVMGNEELCDFVRSRLEVTDLEK  
 VCNEVVDTCLYKGSRDNMSVILCFFPSAPKVAEAVKKEAELDKYLESRVEEIK  
 KQVEGVVPDLVHVMRTLASENIPSLPPGELASKRNVIEAVYNRLNPYKNDDTDS  
 ASTDDMW (SEQ ID NO:2)

**FIGURE 1**

underlined = deleted in targeting construct

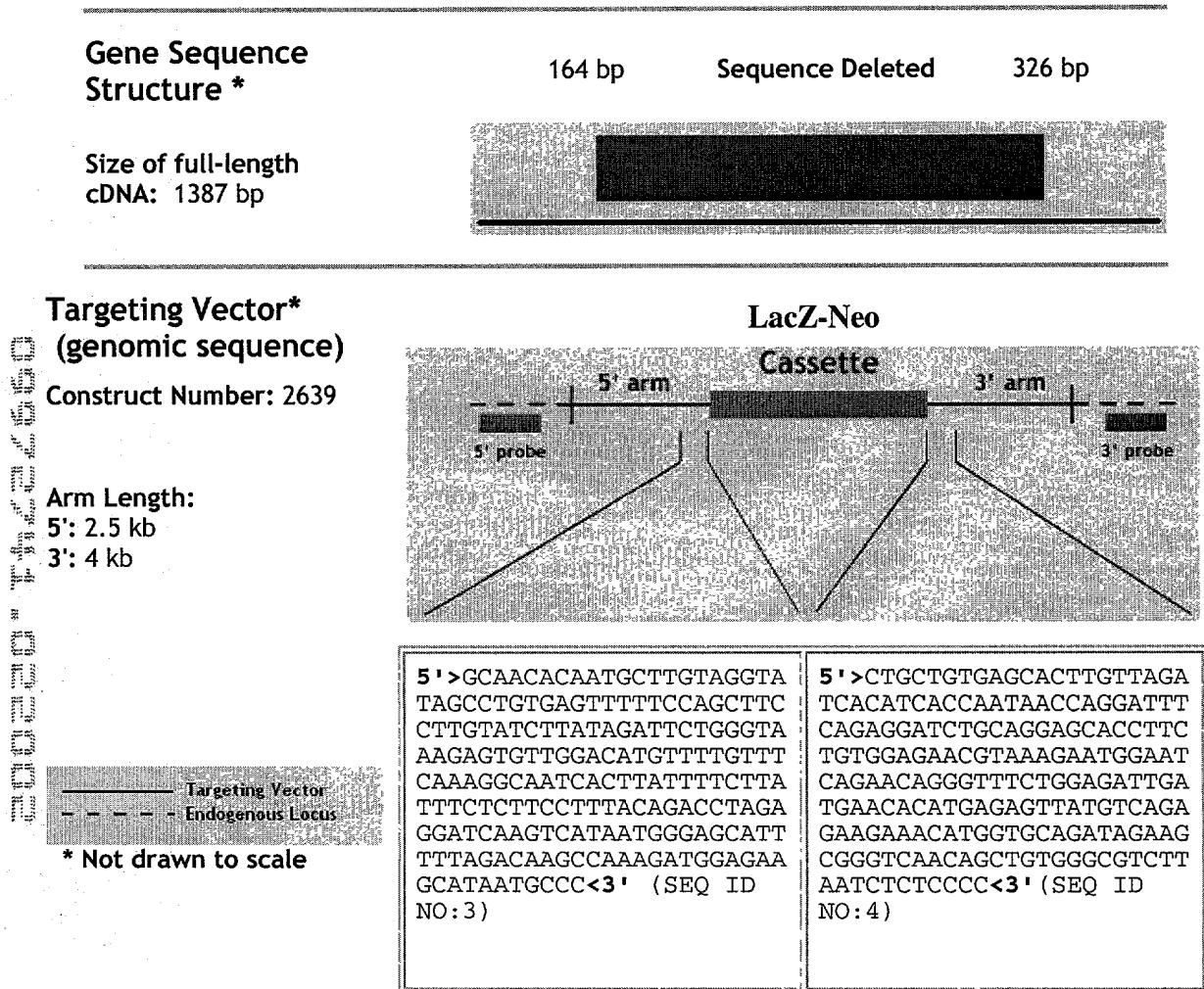
[ ] = sequence flanking Neo insert in targeting construct

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CCCCGGCCCGGCCGTCGGGGACCCCGTGGCCGGCCGTGCCACCGCCGCCG
GCCGACCGAGGGACCCGCCGCCGCGCTGCTCGG [ACCTAGAGGATCAAGTCATAATG
GGAGCATTAGACAAGGAAAGCTAATGCC] AGGGGCAGGGGAATGGG
TTACGATACTGGCTTAAGCAGCATGCAAGGTTGGCGAGTTGAAATGGAGGACGCACACAG
GCTGTGATCGGTTTGCCAAGTGGACTTGAACATGGTCAATTCTTGCTGTATATGATGGG
CATGCTGGTTCTCAGGTTGCCAAATA [CTGCTGTGAGCACTTGTAGATCACATACCAAT
AACCAAGGATTCTAGAGGATCTGCAGGAGCACCTCTGTGGAGAACGTAAGAACATGGAATC
AGAACAGGGTTCTGGAGATTGATGAACACATGAGAGTTATGTCAAGAGAACATGGT
GCAGATAGAACGGGTCAACAGCTGTGGCGCTTAATCTCTCCCCAACATACTTAACTTC
ATTAACGTGGAGACTCGAGAGGTTACTTGTAGGAATAGAAAAGTCACCTCTTCACA
CAAGACCATAAACCAAGTAACCCGCTGGAAAAAGAACGAATTCAAATGCAGGGGGCTCG
GTGATGATTCAAGCGTGTCAATGGCTCTGGCTGTATCGAGGGCCCTGGGATTCGAT
TACAAATGTGTCCATGG] AAAAGGTCCCACAGAGCAGCTTGTCTCCCAGAGCCGAAGTC
CATGATAATTGAAAGGTCTGAAGAACATGACCAGTTCATCATCCTGATGCATGGCATE
TGGGACGTCATGGGAACGAAGAGCTCTGTGACTTTGTGAGATCCAGACTTGAAGTCAC
GATGACCTTGAGAAAGTTGCAATGAAGTAGTCGACACCTGCTTGTATAAGGGAAAGTCGA
GACAACATGAGTGTGATTGTGATCTGTTTCCAAGTGCACCCAAAGTCTCGGCAGAGCG
GTGAAGAACGGAGGCGAGCTGACAAGTACCTGGAGAGCAGAGTAAAGAAATCATAAAG
AAGCAGGTGAAAGGCGTCCCTGACTTAGTCCACGTGATGCGCAGCTTAGCCAGTGAGAAC
ATCCCCAGCCTCCCACAGGGGTGAATTGGCAAGCAAGCGGAATGTAATTGAAGCCGTT
TACAATAGACTGAACCCCTAACAAATGACGACACTGATTCTGCGTCAACCGATGATATG
TGGTAAAGCGCTCACCCAGCCGTGGACTCACCTCGCTGCAAAGGGGAAGCCAGCTCA
TCCTTGCGAGCCTTACCATCCATCACCACAGGAGGTCTGACACGGGTGAGG
ACTGCAG

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**FIGURE 2A**

**FIGURE 2B**